

## TYPICAL ANALYSIS (weight %)

C	Si	Mn	Cr	W	V
0.95	0.25	1.10	0.60	0.60	0.10

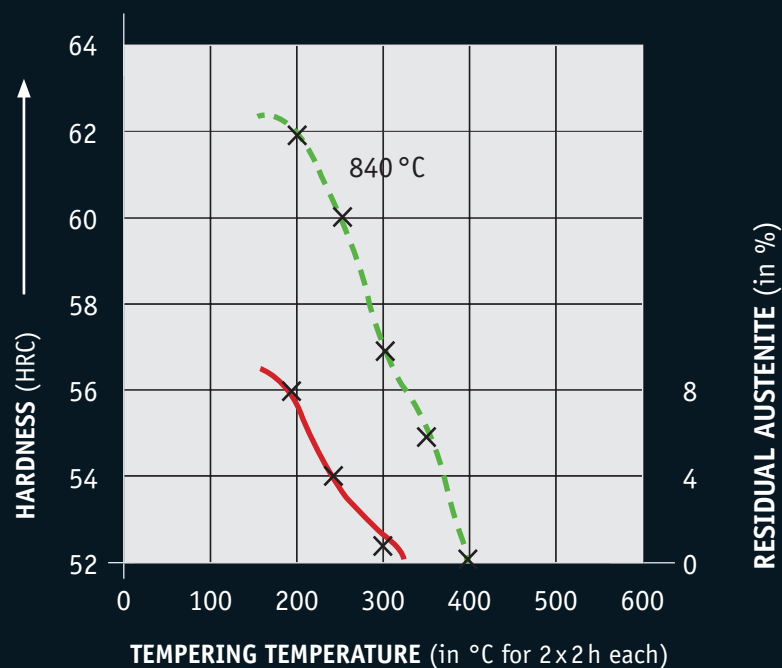
The normal working hardness depends on the application area.

## APPLICATION:

- Cold work steel for simple cutting and transformation tools
- Guide bars

## HARDENING OF GRADE NO. 1.2510:

- Hardening temperature 800–850 °C, usually 840 °C
- Quenching in oil or polymer bath up to 50 mm cross section
- Hardness after tempering depends on size and quenching medium  $\approx 60$ –65 HRC
- Tempering based on hardness required, however  $\geq 180$  °C (see tempering diagram)



## SOFT ANNEALING:

- Soft annealing temperature = 740–780 °C
- Holding period  $\geq 2$  hours
- Cooling in furnace down to 500 °C, then on air, in ash or expanded clay

## STRESS RELIEVE ANNEALING:

- Temperature = 650 °C
- Holding period  $\geq 2$  hours by down cooling in furnace